

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Currently Amended) An apparatus for providing a graphical user interface (GUI)
2 comprising:
3 logic configured to execute GUI generation code and GUI user interaction handling code;
4 and
5 a display device in communication with said logic, wherein execution of the GUI
6 generation code by said logic causes a first window and a second window to be displayed on the
7 display device, said first window presenting a first panel configured to present plural devices and
8 associated commands of a sequence as a hierarchical tree structure, each of the devices in the
9 sequence being at a different hierarchical level than a hierarchical level of one or more
10 commands associated with the device, the first window presenting a second panel configured to
11 present one or more available commands and devices for adding commands and devices to the
12 sequence, and said second window presenting results of execution of the sequence,
13 wherein said presented results include information defining an iteration associated with a
14 displayed command.

1 2. (Previously Presented) The apparatus of claim 1, wherein said first and second panels are
2 simultaneously and fully viewable by a user.

1 3. - 4. (Cancelled)

1 5. (Previously Presented) The apparatus of claim 1, wherein each of the commands
2 comprises an argument.

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 6. (Currently Amended) ~~The apparatus of claim 1,~~ An apparatus for providing a graphical
2 user interface (GUI) comprising:
3 logic configured to execute GUI generation code and GUI user interaction handling code;
4 and
5 a display device in communication with said logic, wherein execution of the GUI
6 generation code by said logic causes a first window and a second window to be displayed on the
7 display device, said first window presenting a first panel configured to present plural devices and
8 associated commands of a sequence as a hierarchical tree structure, each of the devices in the
9 sequence being at a different hierarchical level than a hierarchical level of one or more
10 commands associated with the device, the first window presenting a second panel configured to
11 present one or more available commands and devices for adding commands and devices to the
12 sequence, and said second window presenting results of execution of the sequence,
13 wherein said presented results include a start time and an end time associated with
14 execution of each command.

1 7. (Cancelled)

1 8. (Previously Presented) The apparatus of claim 1, wherein said presented results include a
2 step associated with a displayed command.

1 9. (Previously Presented) The apparatus of claim 1, wherein said presented results include a
2 device associated with a displayed command.

1 10. (Previously Presented) The apparatus of claim 1, wherein said presented results include
2 information indicating whether or not a displayed command was successfully executed.

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 11. (Currently Amended) ~~The apparatus of claim 1,~~ An apparatus for providing a graphical
2 user interface (GUI) comprising:
3 logic configured to execute GUI generation code and GUI user interaction handling code;
4 and
5 a display device in communication with said logic, wherein execution of the GUI
6 generation code by said logic causes a first window and a second window to be displayed on the
7 display device, said first window presenting a first panel configured to present plural devices and
8 associated commands of a sequence as a hierarchical tree structure, each of the devices in the
9 sequence being at a different hierarchical level than a hierarchical level of one or more
10 commands associated with the device, the first window presenting a second panel configured to
11 present one or more available commands and devices for adding commands and devices to the
12 sequence, and said second window presenting results of execution of the sequence,
13 wherein said second window displays a unique iteration number identifier for each of one
14 or more iterations of the sequence, each of said iteration number identifiers uniquely identifying
15 a particular iteration of said sequence, and wherein when a user selects one of said unique
16 iteration number identifiers, information describing each command executed during the iteration
17 associated with the selected iteration number identifier is displayed on said display device.

1 12. (Previously Presented) The apparatus of claim 11, wherein said information comprises:
2 a start time and an end time associated with execution of each command that was
3 executed during the iteration associated with the selected iteration number identifier;
4 information identifying the iteration associated with each command;
5 a step associated with each command;
6 a device associated with each command; and
7 information indicating whether each command was successfully executed.

1 13. (Original) The apparatus of claim 1, wherein the GUI generation code and the GUI user
2 interaction handling code are written in an object-oriented, platform-independent language.

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 14. (Currently Amended) A method for enabling a user to analyze results of execution of a
2 sequence, the sequence including devices and associated commands, the method comprising:
3 presenting a first option that enables a user to open a first window;
4 displaying the first window responsive to selection of the first option, the first window
5 containing a first portion displaying the sequence and a second portion displaying a set of one or
6 more available commands for inserting into the displayed sequence;
7 presenting a second option that enables execution of the sequence; and
8 displaying, in a second window, results of execution of the sequence in response to
9 selection of the second option, the results displayed containing the commands in the sequence
10 and information identifying devices associated with the commands,
11 wherein displaying the results of the execution further comprises displaying information
12 identifying an iteration of the sequence associated with a displayed command.

1 15. (Previously Presented) The method of claim 14, wherein said first and second portions
2 are capable of being simultaneously and fully viewable by a user.

1 16. - 18. (Cancelled)

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 19. (Currently Amended) ~~The method of current claim 14,~~ A method for enabling a user to
2 analyze results of execution of a sequence, the sequence including devices and associated
3 commands, the method comprising:
4 presenting a first option that enables a user to open a first window;
5 displaying the first window responsive to selection of the first option, the first window
6 containing a first portion displaying the sequence and a second portion displaying a set of one or
7 more available commands for inserting into the displayed sequence;
8 presenting a second option that enables execution of the sequence; and
9 displaying, in a second window, results of execution of the sequence in response to
10 selection of the second option, the results displayed containing the commands in the sequence
11 and information identifying devices associated with the commands,
12 wherein displaying the results of the execution comprises displaying a start time and an
13 end time associated with execution of each command of the sequence.

1 20. (Cancelled)

1 21. (Currently Amended) The method of claim 14 [[19]], wherein displaying the results of
2 the execution comprises displaying information identifying each step associated with a displayed
3 command.

1 22. (Previously Presented) The method of claim 19, wherein displaying the results of the
2 execution comprises displaying information indicating whether a displayed command was
3 successfully executed.

1 23. – 33. (Cancelled)

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 34. (Currently Amended) An apparatus, comprising:
2 a processor configured to execute logic configured to generate a graphical user interface
3 (GUI), logic configured to interact with at least one human to machine interface, and logic
4 configured to generate commands applied to control systems within one or more remote devices;
5 and
6 a display device in communication with said processor, wherein when said processor
7 executes the logic configured to generate the GUI, a first window is displayed on the display
8 device that displays both a sequence in a first portion of the first window and a list of one or
9 more commands in a second portion of the first window, the displayed sequence being in a
10 hierarchical tree structure in which plural devices and associated commands of the displayed
11 sequence are at different hierarchical levels,
12 wherein said first window presents a first option, the selection of which executes the
13 sequence,
14 wherein when a second option is selected, the display device displays a second window
15 displaying ~~summary data regarding~~ results of execution of plural iterations of the sequence.

1 35. (Previously Presented) The apparatus of claim 34, wherein the one or more remote
2 devices comprise devices configured to house and manipulate data storage media.

1 36. - 38. (Cancelled)

1 39. (Previously Presented) The apparatus of claim 1, wherein execution of the sequence
2 causes communication with the devices identified by the sequence.

1 40. (Cancelled)

1 41. (Previously Presented) The apparatus of claim 1, further comprising a memory to store a
2 file containing the results of the execution of the sequence,
3 wherein the second window presents the results of the execution of the sequence in
4 response to selection of a displayed option that enables opening of the file.

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 42. (Currently Amended) ~~The apparatus of claim 1,~~ An apparatus for providing a graphical
2 user interface (GUI) comprising:
3 logic configured to execute GUI generation code and GUI user interaction handling code;
4 and
5 a display device in communication with said logic, wherein execution of the GUI
6 generation code by said logic causes a first window and a second window to be displayed on the
7 display device, said first window presenting a first panel configured to present plural devices and
8 associated commands of a sequence as a hierarchical tree structure, each of the devices in the
9 sequence being at a different hierarchical level than a hierarchical level of one or more
10 commands associated with the device, the first window presenting a second panel configured to
11 present one or more available commands and devices for adding commands and devices to the
12 sequence, and said second window presenting results of execution of the sequence,
13 wherein the execution of the sequence causes testing of the devices identified in the
14 sequence.

1 43. (Cancelled)

1 44. (Previously Presented) The method of claim 14, further comprising:
2 storing the results of execution of the sequence in a file; and
3 in response to receiving user activation of a displayed option, open the file to enable
4 displaying the results in the second window.

1 45. (Cancelled)

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 46. (Currently Amended) A computer-readable medium storing a computer program for
2 generating a graphical user interface (GUI), the program when executed causing a computer to:
3 display a sequence of steps on a display device, the steps including respective devices
4 and commands;
5 display, on the display device, at least one of a list of available devices and a list of
6 available commands that are insertable into the sequence for editing the sequence in response to
7 selection of a ~~displayed~~ first option that is displayed on the display device;
8 activate execution of the sequence in response to selection of a ~~displayed~~ second option
9 that is displayed on the display device; and
10 display results of the execution of the sequence in a first window on the display device,
11 wherein the displayed results contain results for plural iterations of the sequence.

1 47. (Previously Presented) The computer-readable medium of claim 46, wherein the
2 program when executed causes the computer to display the sequence of steps and the at least one
3 of the list of available devices and list of available commands in a second window.

1 48. (Currently Amended) The computer-readable medium of claim 46, wherein the program
2 when executed causes the computer to remove at least one of a step, device, and command from
3 the sequence in response to selection of a ~~displayed~~ third option displayed on the display device.

1 49. (Previously Presented) The computer-readable medium of claim 46, wherein execution
2 of the sequence causes testing of one or more devices identified in the sequence.

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 50. (Currently Amended) ~~The computer-readable medium of claim 46,~~ A computer-readable
2 medium storing a computer program for generating a graphical user interface (GUI), the program
3 when executed causing a computer to:
4 display a sequence of steps on a display device, the steps including respective devices
5 and commands;
6 display, on the display device, at least one of a list of available devices and a list of
7 available commands that are insertable into the sequence for editing the sequence in response to
8 selection of a first option that is displayed on the display device;
9 activate execution of the sequence in response to selection of a second option that is
10 displayed on the display device; and
11 display results of the execution of the sequence in a first window on the display device,
12 wherein the displayed results contain a start time and an end time associated with
13 execution of each command in the sequence.

1 51. (Cancelled)

1 52. (Previously Presented) The computer-readable medium of claim 46, wherein the
2 displayed results contain information associated with one or more remote devices tested by the
3 execution of the sequence.

1 53. (Previously Presented) The apparatus of claim 1, wherein the first panel is configured to
2 further present at least a step of the sequence, the step including at least one of the devices and
3 the one or more commands associated with the at least one device, wherein the step is at a
4 hierarchical level that is different from the at least one device.

1 54. (Previously Presented) The method of claim 14, wherein displaying the sequence
2 comprises displaying the sequence as a hierarchical tree structure, each of the devices in the
3 sequence being at a different hierarchical level of the hierarchical tree structure than a
4 hierarchical level of one or more commands associated with the device.

Appln. Serial No. 09/773,118
Amendment Dated September 17, 2007
Reply to Office Action Mailed June 18, 2007

1 55. (Previously Presented) The method of claim 14, wherein the sequence further comprises
2 at least one step that includes at least one device and one or more commands associated with the
3 at least one device, and wherein displaying the sequence comprises displaying the sequence as a
4 hierarchical tree structure, the at least one step, the at least one device, and the associated one or
5 more commands being at different hierarchical levels in the tree structure.

1 56. (Previously Presented) The computer-readable medium of claim 46, wherein the
2 sequence is displayed as a hierarchical tree structure containing the steps, devices, and
3 commands, each step at a hierarchical level different from the respective hierarchical levels of
4 the devices and commands included in the corresponding step.